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Fig. 1a

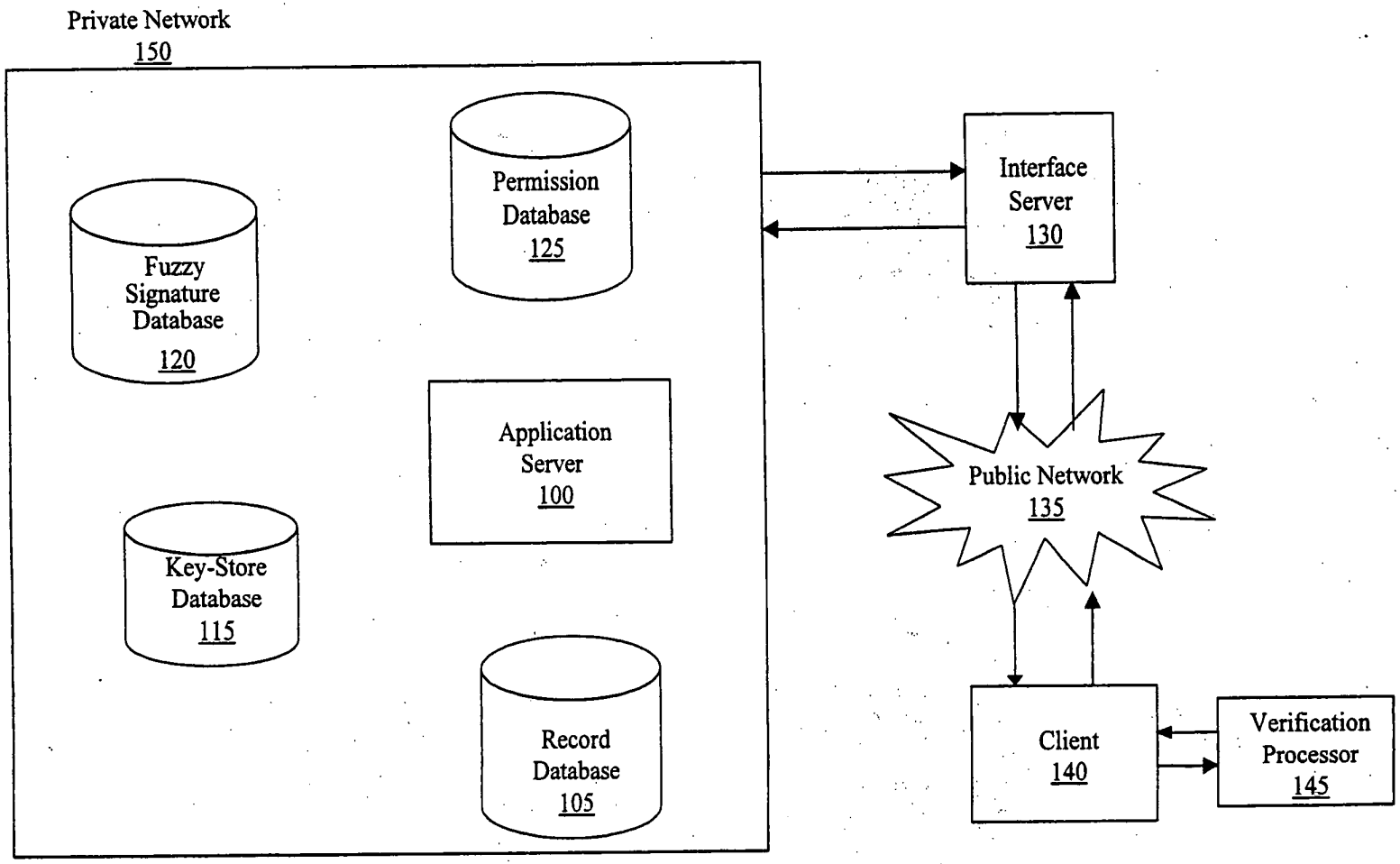

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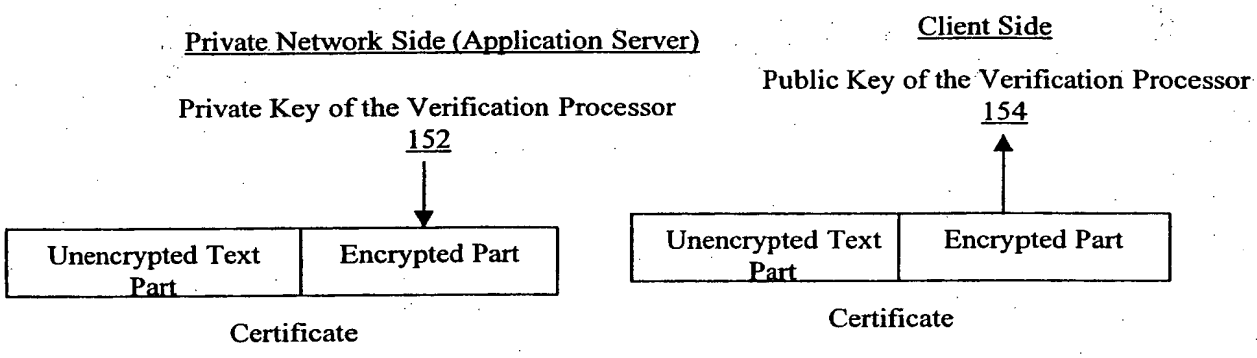
Fig. 1b

Keys Used for Authenticating the Interface Server



Key: ↓ = Encryption ↑ = Decryption

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Fig. 1c

Keys Used in Transmitting, Receiving, and Storing Data

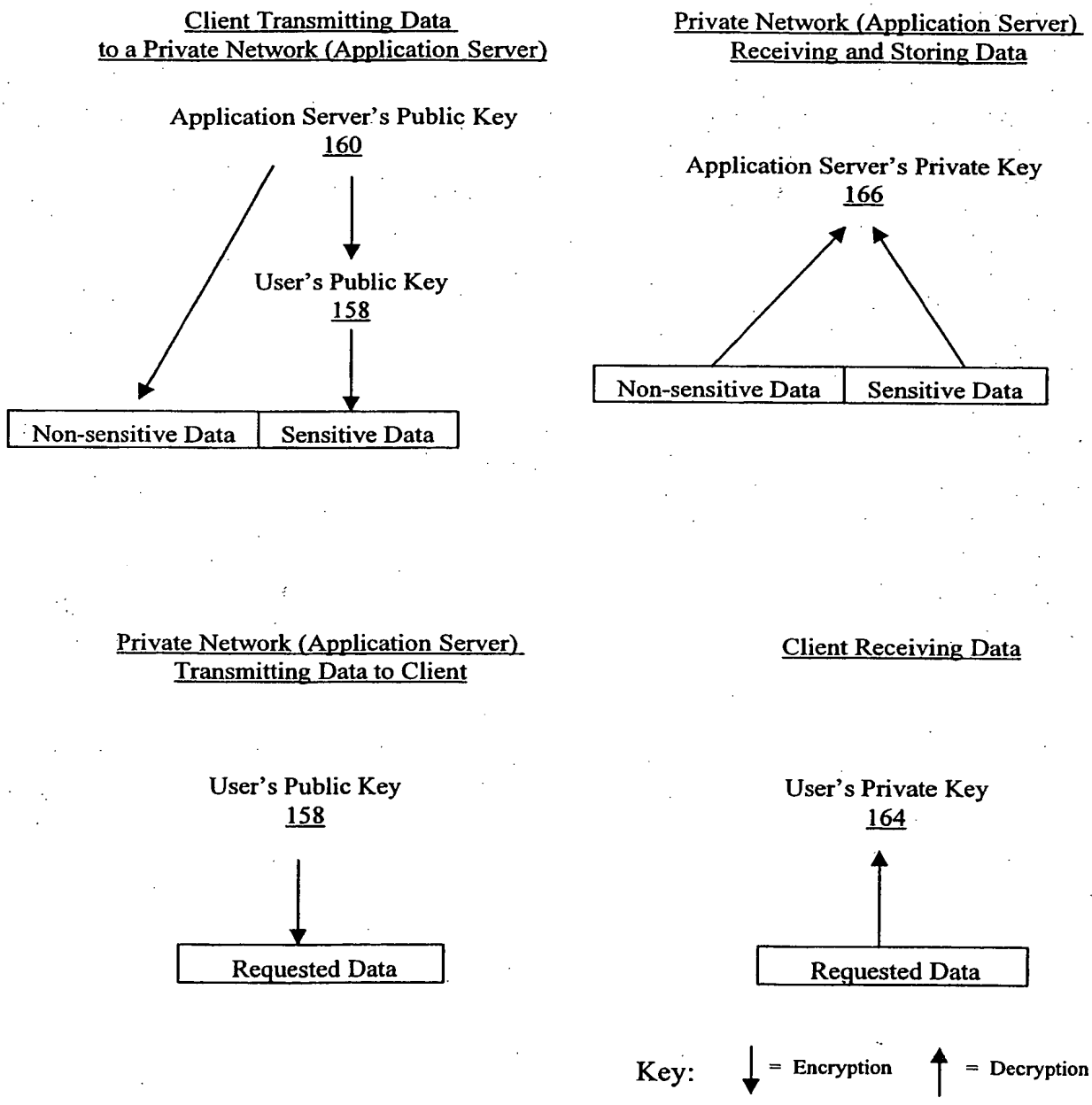

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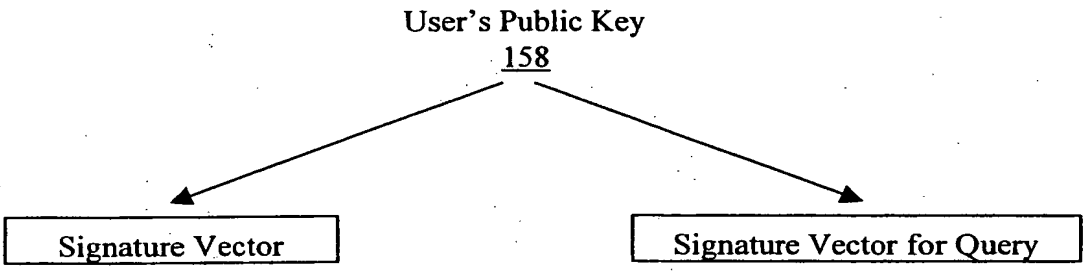
Fig. 1d

Keys Utilized in Fuzzy Searching



Key: ↓ = Encryption ↑ = Decryption

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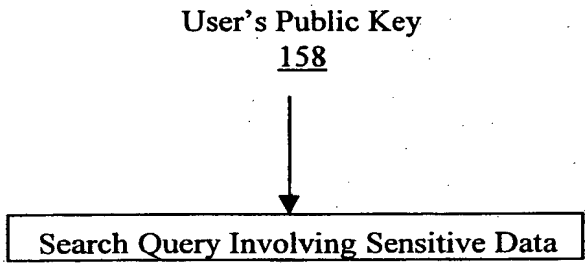
Fig. 1e

Keys Utilized in Relational Database Searching



Key: ↓ = Encryption ↑ = Decryption

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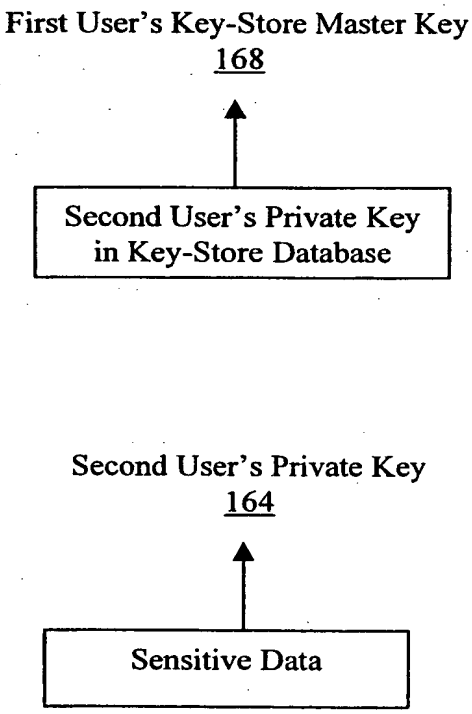
Fig. 1f

Keys Utilized in Accessing Sensitive Data



Key: ↓ = Encryption ↑ = Decryption

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Fig. 1h

Steps for Communications between a Client and a Private Network

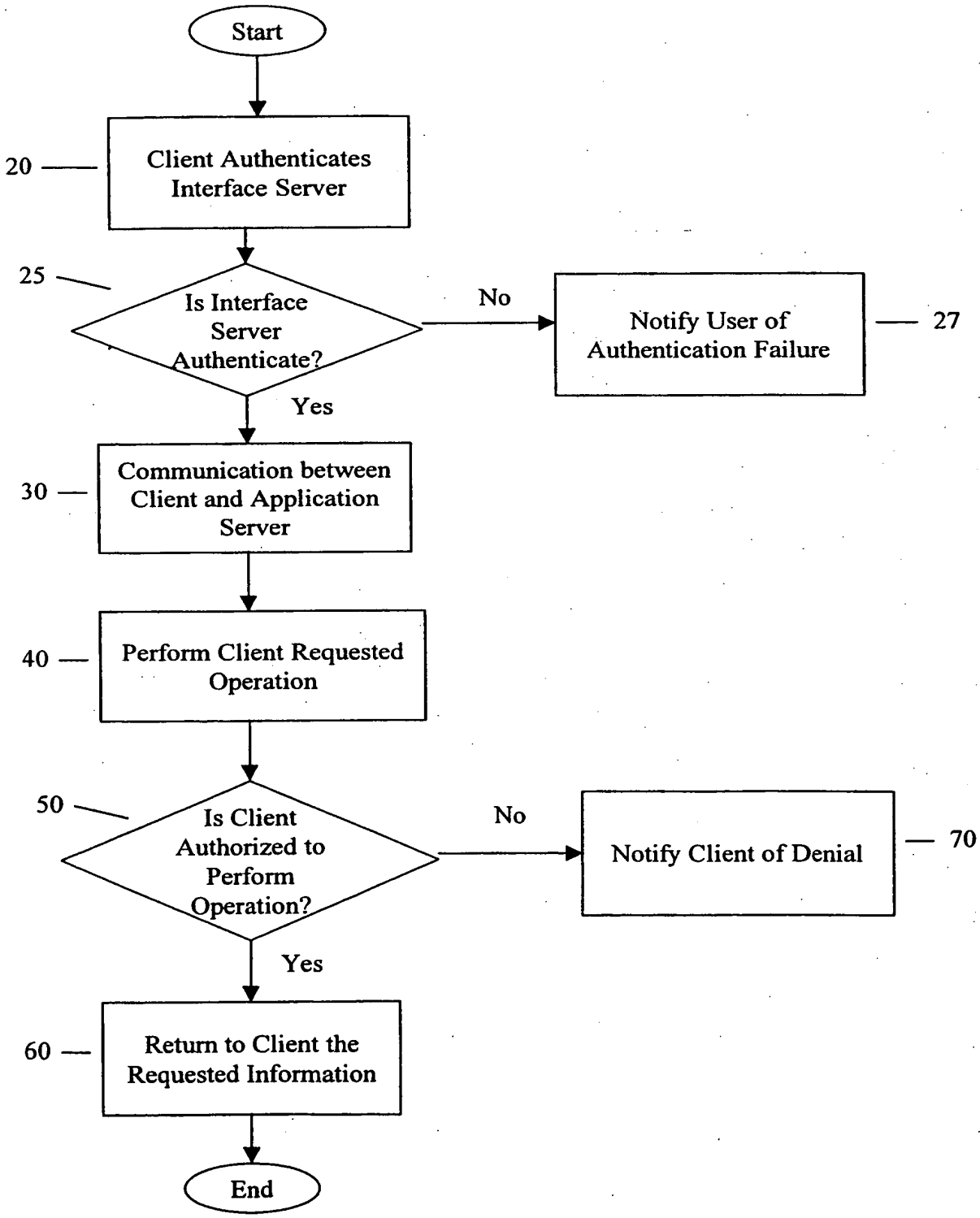

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Fig. 2

Authentication

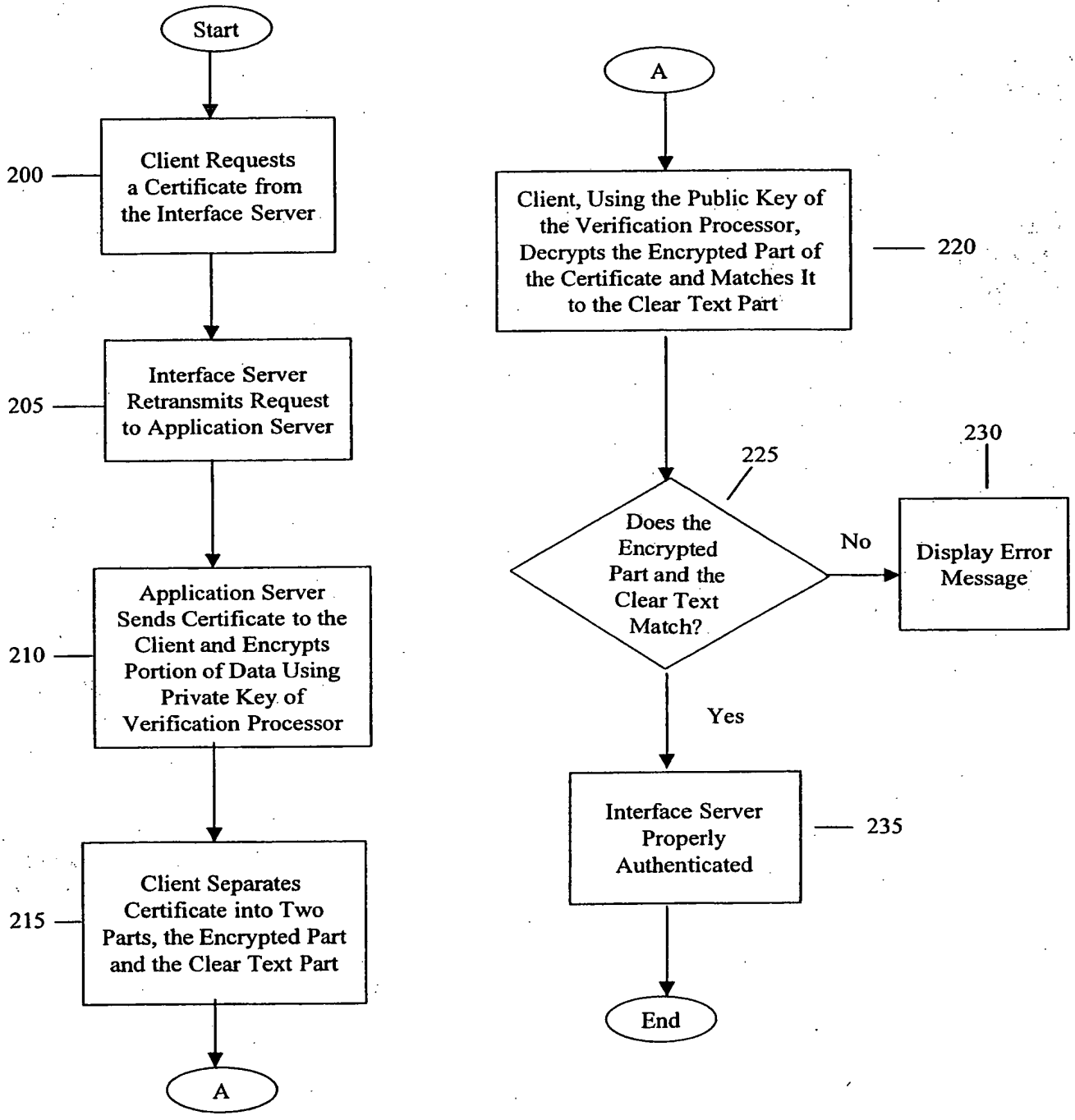

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Fig. 3

Transmission and Storage of Data

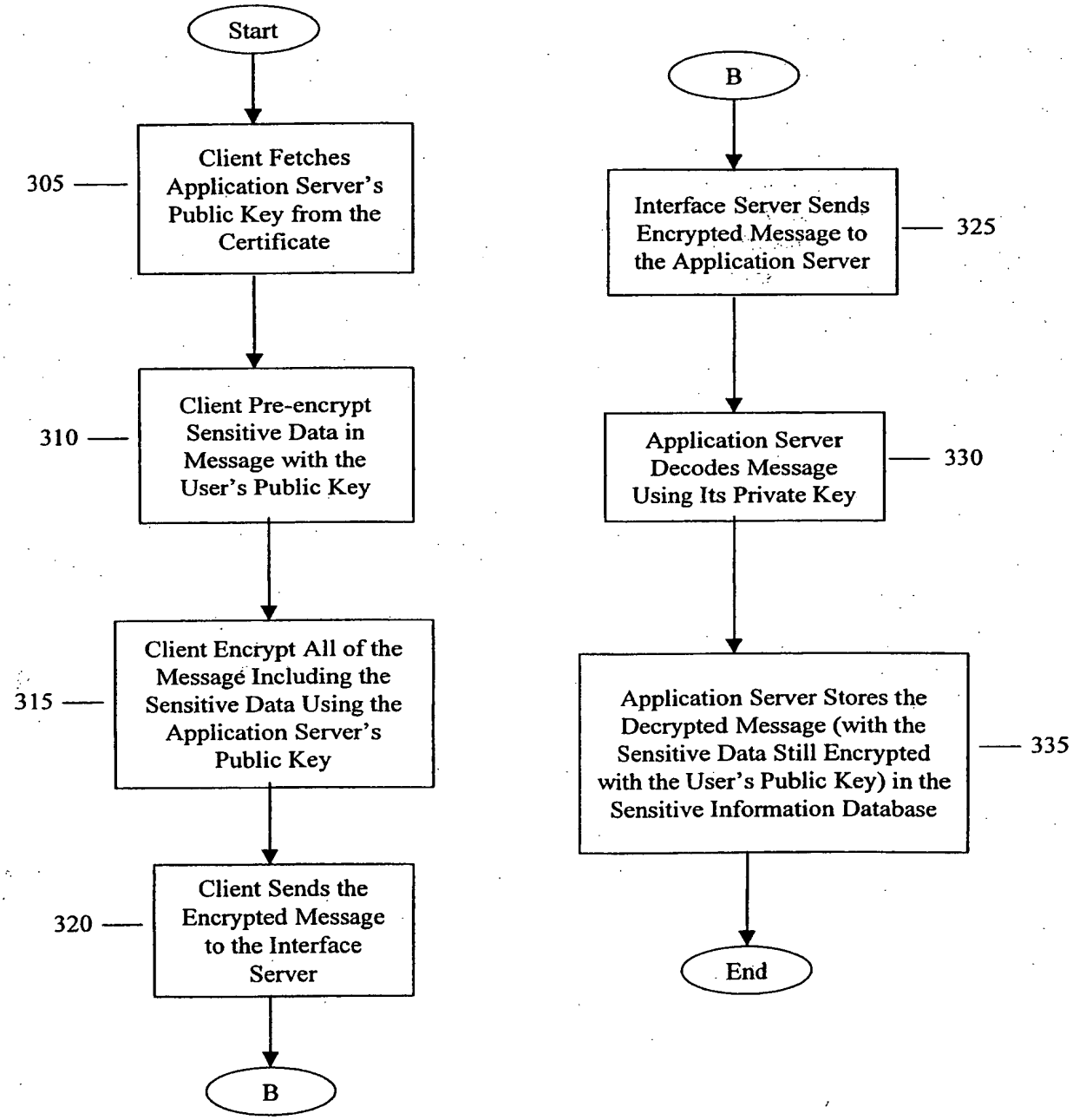

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Fig. 4

Search Operation

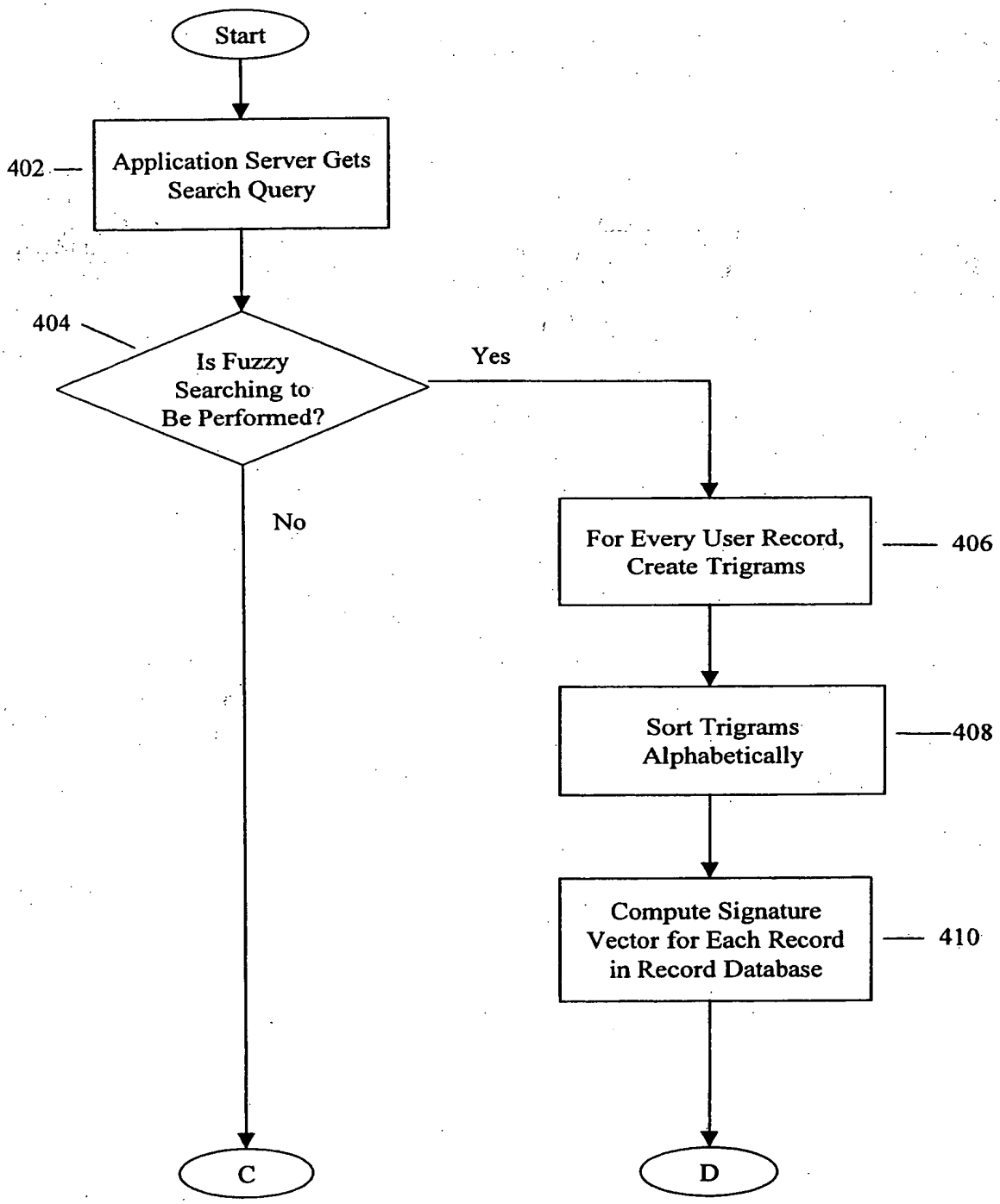

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Fig. 4

Search Operation

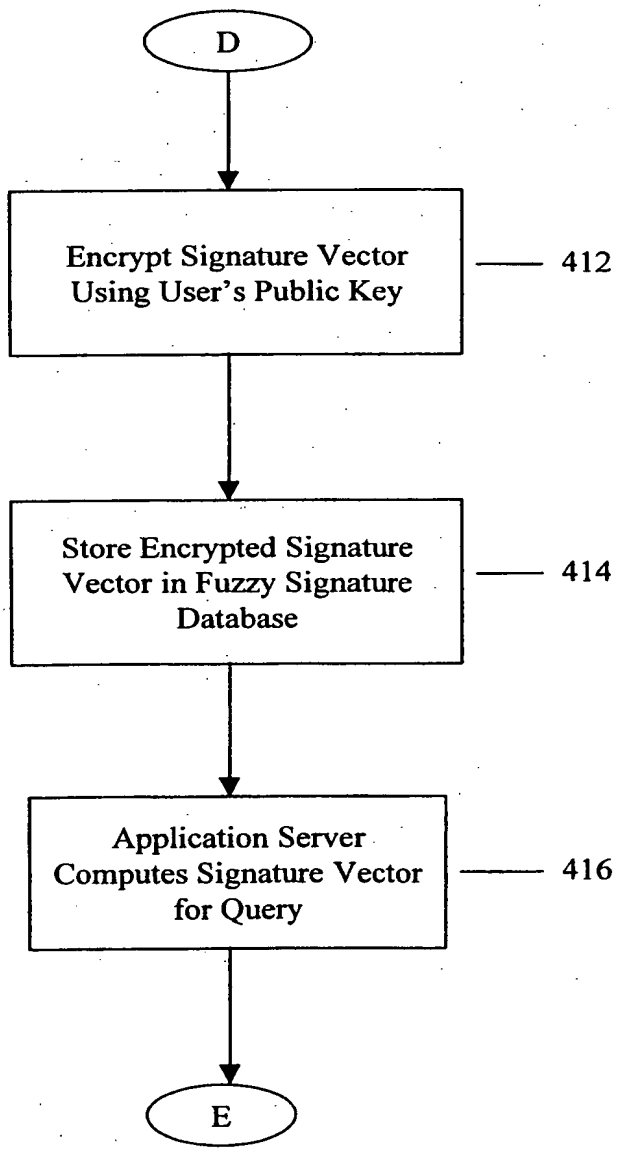

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Fig. 4

Search Operation

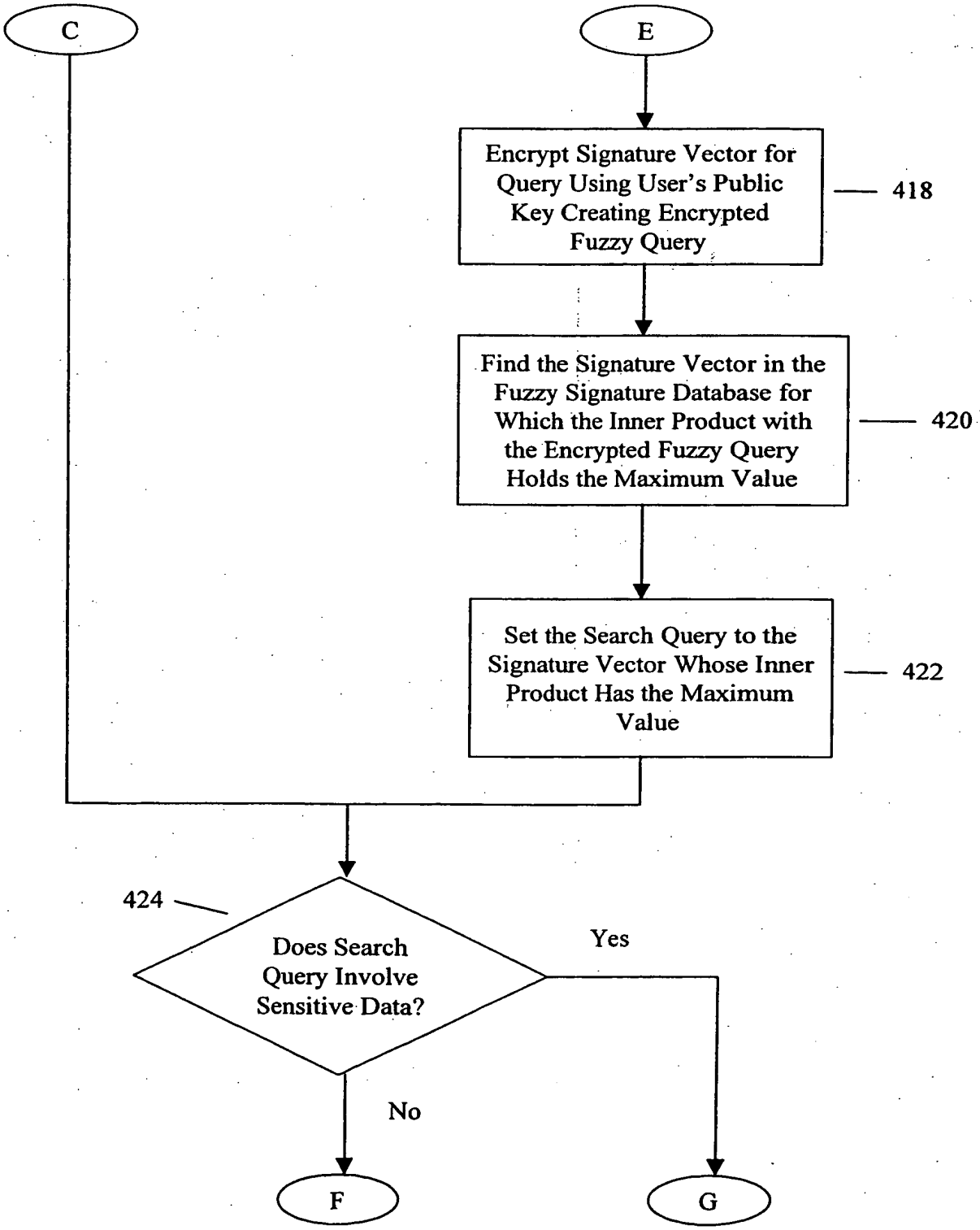

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Fig. 4

Search Operation

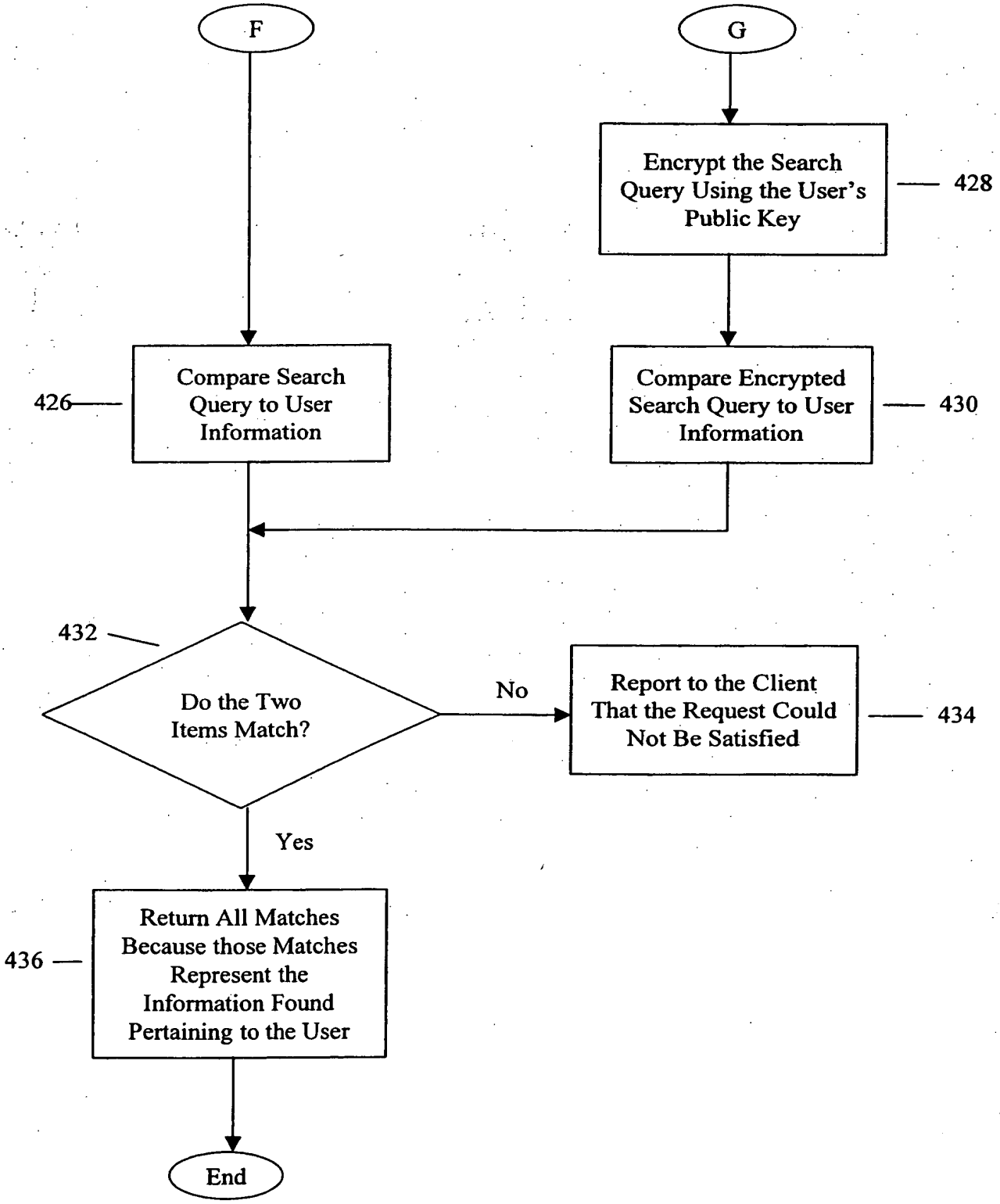

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Fig. 5

Accessing Sensitive Data

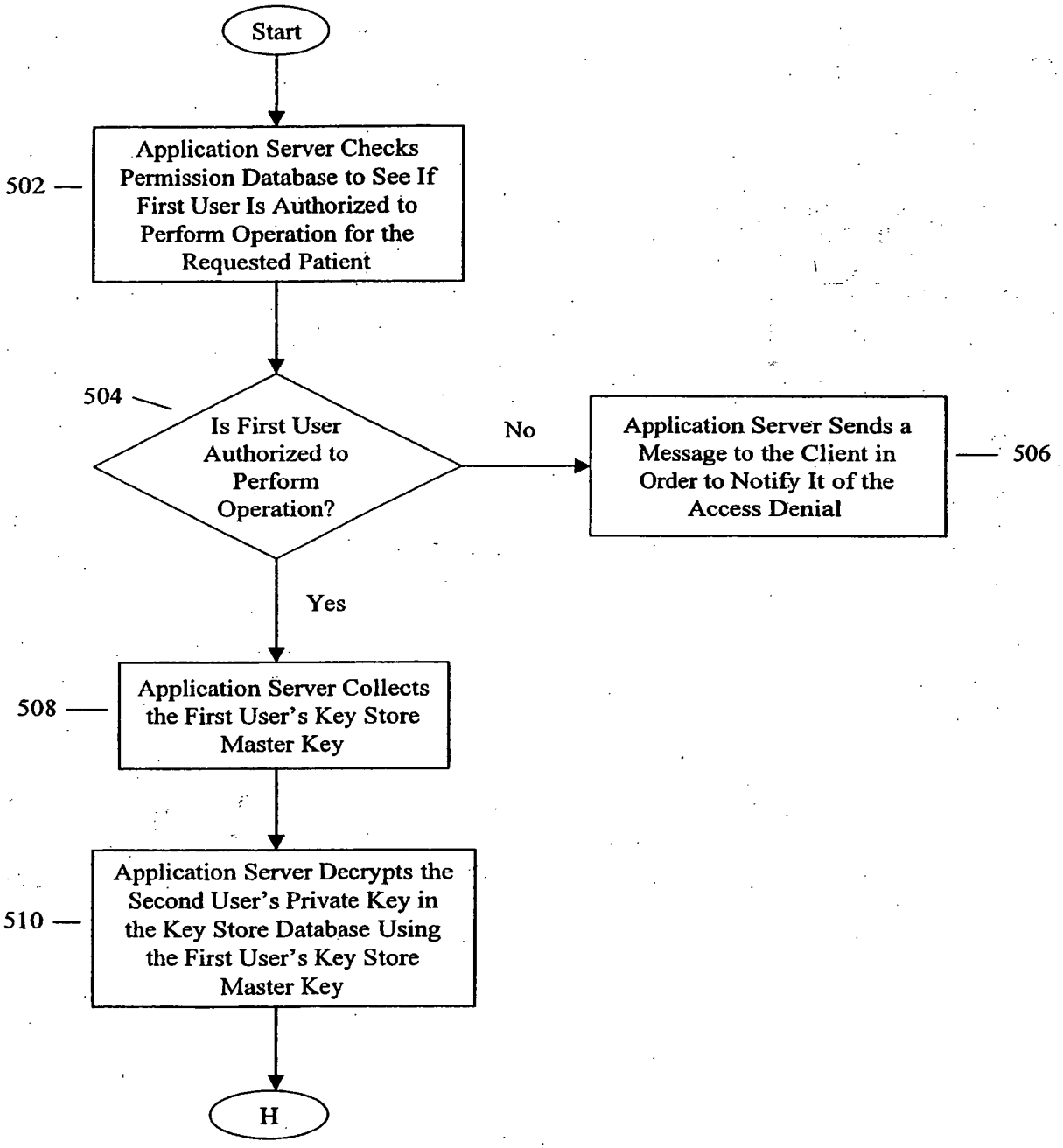

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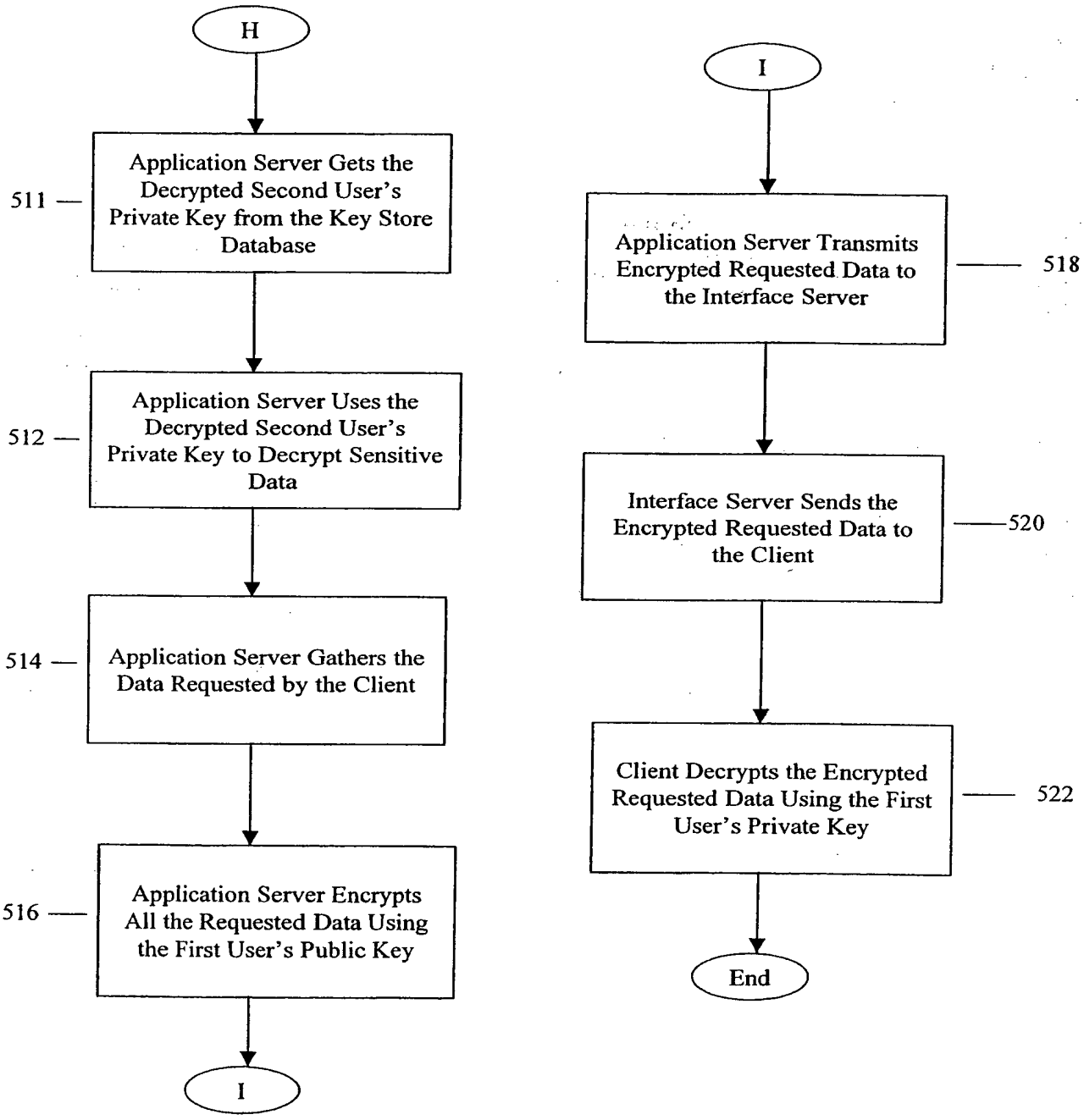
Fig. 5

Accessing Sensitive Data (Cont.)